

Attorney Docket No.: P-7938-US

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s):

JAMES, William et al.

Examiner:

Not Yet Known

Serial No.:

10/534,259

Group Art Unit:

Not Yet Known

Filed:

May 10, 2005

Title:

LIGANDS

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Sir:

INFORMATION DISCLOSURE STATEMENT

Pursuant to 37 C.F.R. §§1.56, 1.97 and 1.98, this Information Disclosure Statement includes Form PTO-1449:

1. 🗵	listing documents including patents, publications and other information for consideration by
	the Examiner, however, since the subject application was filed after June 30, 2003, copies of
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	this information disclosure statement; and/or
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	previously cited or submitted to the Patent Office in prior application U.S. Serial No,
	filed which is properly identified and relied on for an earlier effective filing date under
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APPLICANTS:

Inventor1\$ inventor2\$

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The information herein cited is only in fulfillment of Applicant(s) duty of candor in disclosing all information brought to Applicant(s) attention. This submission does not represent that a search has been made or that no better art exists and does not constitute an admission that each or all of the listed documents are material or constitute "prior art". If it should be determined that any of the listed documents do not constitute "prior art" under United States law, Applicant(s) reserve the right to present to the office the relevant facts and law regarding the appropriate status of such documents.

Applicant(s) further reserve(s) the right to take appropriate action to establish the patentability of the disclosed invention over the listed documents, should one or more of the documents be applied against the claims of the present application.

In accordance with MPEP Sections 609 and 707.05(b), it is requested that each and every document cited (including any cited in applicant's specification which is not repeated on the attached Form PTO-1449) be given thorough consideration and that it be cited of record in the prosecution history of the present application by initialing on Form PTO-1449. Such initialing is requested even if the Examiner does not consider it to be prior art for any reason, or even if the Examiner does not believe that the guidelines for citation have been fully complied with. This is requested so that each document becomes listed on the face of the patent issuing on the present application and is evidence that the Examiner has considered the document.

This Information Disclosure Statement is being filed:

I)		Within th	ree (3) mor	ths of fi	ling the su	bject Applic	ation or e	ntry of the s	ubject
Арр	lication	into the nati	onal stage o	or before	mailing o	f the first Of	fice Actio	n on the me	rits of
the	subject	Application	or a requ	est for	continued	examination	thereof,	whichever	event
occı	ırs last p	oursuant to o	f 37 C.F.R	§1.97 (b); or				
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II) After the period specified in (I) but before the mailing date of either a final Official Action under 37 C.F.R §1.113 or a notice of allowance under 37 C.F.R §1.311 whichever occurs first and;

the undersigned hereby states that each item of information listed on the Form PTO-1449 was either (i) cited in a communication from a foreign patent office in a counterpart foreign application not more than three (3) months prior to the filing of this Information Disclosure Statement or (ii) not cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned after making reasonable inquiry, not known to any individual designated in §1.56(c) more than three (3) months prior to the filing of this information disclosure statement; or

APPLICANTS:

Inventor1\$ inventor2\$

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- III) After the period in (I) and (II) but before the payment of the issue fee and,
 - 1. The undersigned hereby states:
 - 2. The undersigned hereby authorizes the Patent Office to charge the Petition fee in the Amount of \$180.00 under 37 C.F.R §1.17 (p) to Deposit Account 50-3355.

Except for issue fees payable under 37 C.F.R. §1.18, the Commissioner is hereby authorized by this paper to charge any additional fees during the entire pendency of this application including fees due under 37 C.F.R. §§1.16 and 1.17 which may be required, including any required extension of time fees, or credit any overpayment to Deposit Account No. 50-3355.

Respectfylly submitted,

Mark S. Cohen

Attorney/Agent for Applicant(s)

Registration No. 42,425

Dated: November 20, 2005

Pearl Cohen Zedek Latzer, LLP 10 Rockefeller Plaza, Suite 1001 New York, New York 10020

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				Application Number	10/534,259			
INFO	DRMATION	DISCLOS	URE	Filing Date	May 10, 2005			
STA	TEMENT E	SY APPLIC	ANT	First Named Inventor	JAMES, William			
				Group Art Unit	Not Yet Known			
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Sheet	1	of	6	Attorney Docket Number	P-7938-US			

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	В	wo	03102131		Macejak, et al	December 11, 2003		
	С	wo	04007748		Vargeese, et al	January 22, 2004		
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STA	TEMENT E	BY APPLIC	ANT	First Named Inventor	JAMES, William			
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Sheet	2	of	6	Attorney Docket Number	P-7938-US			

	1	NON PATENT LITERATURE DOCUMENTS Include name of the author (in CAPITAL LETTERS), title of the article (where appropriate), title of the	1
Examiner nitials*	Cite No.1	item (book, magazine, journal, serial, symposium, catalog, etc.). date. page(s), volume-issue number(s), publisher, city and/or country where published.	T²
	D	Arendrup, Maiken, et al (1992) "Antilogous HIV -1 Neutralizing Antibodies: Emergence of Neutralization – Resistant Escape Virus and Subsequent Development of Escape Virus Neutralization Antibodies (Journal of Acquired Immune Deficiency Syndromes", Vol. 5 No. 3, 1992)	
	E	Barre-Sinoussi, F., et al (1983) "Isolation of a T-Lymph tropic Retrovirus from a Patient at Risk for Acquired Immune Deficiency Syndrome (AIDS)", (Science, New Series, Vol. 220, No. 4599, May 20, 1983, 868-871)	
	F	Berger, E.A., et al (1998) Nature, Vol 391 , Page 240	
	G	Bewley, C. A., et al (2002) "Design of a Novel Peptide Inhibitor of HIV Fusion That Disrupts the Internal Trimeric Coiled-coil of gp41" (The Journal of Biological Chemistry) Vol. 277 No. 14238-14245. 25)	
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	ı	Burton, D.R., et al (1991) " A Large Array of monoclonal antibodies to type 1 human Immunodeficiency Virus from Combinatorial Libraries of asymptomatic Seropositive Individuals" (Proc Natl Acad Science U S A 88, 10134-7)	
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	к	Chavda, S.C., et al (1994) " Molecular Determinants of the V3 Hoop of Human Immunodeficiency Virus Type 1 glycoprotein gp120 responsible for Controlling Cell Tropism" (Journal of General Virology 75 (Pt 11), 3249-53)	
	L	Chesebro, B., et al (1991) "Identification of Human Immunodeficiency Virus Envelope Gene Sequences Influencing Viral Entry into CD4-Positive HeLa Cells, and Macrophages" (Journal of General Virology 65, 5782-9)	
	М	Ferrer, M., et al (1999) "Selection of gp41 – Mediated HIV -1 Cell Entry Inhibitors From Biased Combinatorial libraries of Non – Natural Binding Elements" (Nat Struc Biol 6, 953-60)	
	N	Finzi, D., et al (1999) "Latent Infection of CD4 T Cells Provides a Mechanism for Liflong Persistance of HIV-1 Even in Pateints Effective Combination Thearapy" (Nat Med 5, 512-7)	

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Sheet	3	of	6	Attorney Docket Number	P-7938-US		

	-	NON PATENT LITERATURE DOCUMENTS	
xaminer nitials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (where appropriate). title of the item (book, magazine, journal. serial, symposium, catalog. etc.). date, page(s). volume-issue number(s), publisher, city and/or country where published.	T²
	0	Gartner, S., et al (1986) "Virus Isolation From and Identification of HTLV V-III/LAV – Producing Cells in Brain Tissue From a Patient With AIDS" (J Exp Med 167, 1428-41)	
	Р	Gendelman, H. E., et al (1989) "The Macrophage in the Persistence and Pathogenesis of HIV Infection" (Aids 3,475-95)	
	Q	Gendelman, H. E., et al (1988) " Efficient Isolation and Propagation of Human Immunodeficiency Virus of Recombinant Colony- Stimulating Factor 1-Treated Monocytes" (J Exp Med 167, 1428-21)	
	R	Gershoni, J.m., et al (1993) "HIV Binding to Its Receptor Creates Specific Epitopes for the CD4/gp120 complex" (Faseb J 7, 1185-7)	
	s	Karlsson, R., et al (1991) "Kinetic Analysis of Monoclonal antibody-antigen Interactions With A New Biosensor Based Analytical System" (J Immonol Methods 145, 229-40)	
	Т	Kilby, J. M., et al (1998) Potent Suppression of HIV 1 Replication in Humans in T-20, A Peptide Inhibitor of gp41 –Mediated Virus Entry" (Nat Med 4, 1302-7)	
	U	Kowalski, M., et al (1987) "Functional Regions of the Envelope Glycoprotein of Human Immunodeficiency Virus Type 1" (Science 237, 1351-5 30)	
	V	Kraus, E., et al (1998) "Cutting Edge: Novel RNA Ligands Able to Bind CD4 Antigen and Inhibit CD4 T Lymphocyte Function" (J Immunol 160, 5209-12)	
	W.	Kwong P. D., et al (1998) "Structure of an HIV gp 120 Envelope Glycoprotein In Complex With the CD4 Receptor and Neutralizing Human Antibody" (Nature 393, 648-59 25)	
	x	Kwong P. D., et al (2000) "Structure of an HIV gp 120 Envelope Glycoprotein In Complex With the CD4 Receptor and Neutralizing Human Antibody" (Structure Fold Des 8, 1329-39)	
	Y	Lin C. L., et al (2000) "Macrophage Tropic HIV Induces an Exploits Dendritic Cell Chemotaxis" (J Exp Med 197, 587-94)	

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	z	McKeating, J.A., et al (1989) "Characterazation of HIV 1 Neutralization Escape Mutants" (Aids 3, 777-84)	
	AA	Michael, N. L., et al (1999) "HIV-1 Entry Inhibitors: Evading the Issue" (Nat Med 5, 740-2)	
	вв	Mondor, I., et al (1988) "Interactions among HIV gp120, CD4, and CXCR4: Dependence on CD4 Expression Level, gp120 Viral Origin, Conservation of the gp120 COOH and NH2 Termini and V1/V2 and V3 Loops, and Sensitivity of Neutralizing Antibodies" (Virology 248, 394,-405)	
	СС	Moore, J. P., et al (1990) "Characterization of Recombinant gp120 and gp160 from HIV-1:Binding to Monoclonal Antibodies and Soluble CD4" (Aids 4, 307-15)	
	DD	Moore, J. P., et al (1990) "HIV-1 Naturalization: The Consequences of Viral Adaption to Growth on Transformed T Cells" (Aids 9, S117-36)	
	EE	Mosier, D., et al (1994) "Macrophage-tropic HIV: Critical for AIDS Pathogenesis?" (Immunol Today 15, 332-9	
	FF	Pagratis, N. C., et al (1997) "Potent 2', and 2-Fluore-2-Deoxyribonucleotide RNA Inhibitors of Keratinocyte Growth Factor" (Nat Biotechnol 15, 68-73)	
	GG	Pilgrim N.C., et al (1997) "Neutralizing Antibody Responses To Human Immunodeficiency Virus Type 1 in Primary Infection and Long Term – Non progressive Infection" (Nat Biotechnol 15, 68-73)	
	нн	Ping, L. H., et al (1999) "Characterization of V3 Sequence Heterogeneity In Subtype C Human Immunodeficiency Virus Type 1 Isolates from Malawi: Under representation of X4 Variants " (Nat Biotechnol 15, 68-73)	
	11	Piot, P., et al (2001) "The Global Impact of HIV/AIDS" (Nature 410, 968-73	
	JJ	Prince, A. M., et al (1991) "Prevention of HIV Infection by Passive Immunization With HIV Immunoglobulin" (Aids Res Hum Retroviruses 7, 971-3)	
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	кк	Rizzuto C. D., et al (1998) "A Conserved HIV gp 120 Involved in Chemokine Receptor Binding" (Science 2)		Structure	
	LL	Sullivan. N., et al (1998) "CD4-Induced Conformation Immunodeficiency Virus Type 1 gp120 Glycoprotein: and Neutralization" (J Virol 72, 4694-703)	Consequence		
	мм	Sayer, N., et al (2002) Biochem Biophys Res Comm	n in press		
	NN	Tahiri-Alaoui, A., et al (2002) "High Affinity Nucleic Incorporated into Bi Specific Capture Ligands" (Nucl			
	00	Thali, M., et al (1993) "Characterization of Conserve Virus type 1 gp120 Neutralization Epitopes Exposed Virol 67, 3978-88)	upon gp120-0	CD4 binding" (J	
	PP	Trkola, A., et al (2002) "HIV-1 Escape From a Smal Inhibitor Does Not Involve CXCR4 Use" (Proc Natl A			
	QQ	Wyatt, R., et al (1995) "Involvement of the V1/V2 Va Exposure of Human Immunodeficiency Virus Type 1 Receptor Binding" (J Virol 69, 5723-33)			
	RR	Zollner, B., et al (2001) "Primary Genotypic Resista Inhibitor T-20 in Long-term Infected Patients" (Aids 5		o the Fusion	
	ss	Zwick, M.B., et al (2001) "Neutralization Synergy of Type 1 Primary Isolates by Cocktails of Broadly Neu 12198-208)	tralizing Antibo	odies" (J Virol 75,	
	П	Kilby, J. M., et al (1998) "Potent Suppression of HIV 20 a Peptide Inhibitor of gp41 mediated Virus Entry"			
	บบ	Coilin, M., Herbein, G., Montaner, L. & Gordon HIV1 infection of macrophages: virus entry is Cl 20 13-9.		-	

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		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No.1		T²
	w	Fitzwater, T. & Polisky. B. (1996) "A Selex Primer" Methods Enzpol 267, 275-301.	
	w	Collin, M., Illei, P., James, W. & Gordon, S. (1994)"Definition of the range and distribution of human immunodeficiency virus macrophage tropism using PCR-based infectivity measurements" J Gen Virol75, 1597-1603.	
	xx	Borrow, P., Lewicki, H., Wei, X., Horwitz, M. S., Peffer, N., Meyers, H., Nelson, J. A., Gairin, J. E., Hahn, B. H., Oldstone, M. B. & Shaw, O. M. (1997) Nat Med 3,205-1 1.	
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